Application Number: 10/621,626

Reply to O.A. of August 11, 2004

AMENDMENTS TO THE CLAIMS

Dkt. No.: 33363/US

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-2(Canceled)

3. (New) An emulsion pump having an air channel preventing liquid entrance, comprising:

a piston rod having an upper one-way valve;

a pressing head being fixed on the upper end of the piston rod;

a screw-topped sleeve having a central through hole and a screw thread portion;

a guide sleeve, wherein the guide sleeve is integrally formed on a lower wall of the central through hole, an inner wall of the guide sleeve preventing the liquid entrance slidably matches with an outer wall of the piston rod;

a cylinder having an upper screw thread which is connected to the screw thread portion of the screw-topped sleeve, wherein a lower one-way valve and a spring are provided in the cylinder;

a rubber pipe having an upper end which is fixedly connected with a lower end of the cylinder;

a gasket, which is arranged on an upper end of an outer side of the cylinder and abuts tightly against a lower surface of an inner side of the screw-topped sleeve;

wherein a width of teeth of the upper screw thread of the cylinder is A, a width of a gullet of the screw thread portion of the screw-topped sleeve which is connected with the upper screw thread of the cylinder is B, and B is greater than A, and gaps therebetween forming a portion of the air channel of the emulsion pump, and a gap is disposed between contact surfaces of the upper end of the cylinder and a top lower surface of the screw-topped sleeve.

Application Number: 10/621,626 Reply to O.A. of August 11, 2004

4. (New) The emulsion pump of claim 1, wherein at least one notch is disposed on the upper end of the cylinder.

Dkt. No.: 33363/US